



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/786,302	02/26/2004	Seung Yong Lee	123056-05004425	3444
43569	7590	04/04/2006	EXAMINER	
MAYER, BROWN, ROWE & MAW LLP 1909 K STREET, N.W. WASHINGTON, DC 20006			CHIN, GARY	
			ART UNIT	PAPER NUMBER
			3661	

DATE MAILED: 04/04/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/786,302	Applicant(s) LEE ET AL.	
	Examiner Gary Chin	Art Unit 3661	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-5 is/are pending in the application.
 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-5 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 26 February 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>2/26/04</u> . | 6) <input type="checkbox"/> Other: ____. |

DETAILED ACTION

Specification

1. The abstract of the disclosure is objected to because on line 8, "in short a time" should be "in a short time". Further, on line 16, "a rout number" should be "a route number. Correction is required. See MPEP § 608.01(b).

Claim Rejections - 35 USC § 112

2. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

3. Claims 1-5 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

The instant specification is directed to a system and method for installing an RFID tag by using two cameras, two gps receivers, an INS, a DMI and a sensor synchronizer. However, there is no clear, full and concise disclosure as to exactly how the aforementioned structural devices are being employed in installing the RFID tag. Further, there is no disclosure as to what functions are being performed by the DMI and sensor synchronizer. How exactly is the GPS/INS/DMI integrator being employed to provide the error correction? Similarly, how the camera interior/exterior orientation can be obtained by the so-called self-calibration. Finally, the specification is completely silent as to how the 3-dimensional coordinates of a road can be determined by the target position extractor based upon the integrated data from the

Art Unit: 3661

GPS/INS/DMI integrator and the interior/exterior orientation from the two cameras. In the absence of the aforementioned information, a person having ordinary skill in the art cannot make and use the same invention as claimed without undue experimentation.

4. Claims 1-5 are further rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

As per claims 1 and 3, the preamble in these claims is directed to a system and method for installing an RFID tag by using two CCD cameras, an INS, a DMI and a sensor synchronizer. However, there is no recitation in the body of these claims as to how the two CCD cameras and the sensor synchronizer are being employed in installing the RFID tag. Further, it is unclear as to what is being detected or measured by the INS and DMI. Still further, it is unclear as to what is being processed by the so-called "post-processing". Moreover, in claim 1, it is unclear as to how the information or data are being integrated by the GPS/INS/DMI integrator. On lines 10-12, are the estimated data or recited parameters based upon the images obtained from the two CCD cameras? On lines 13-14, what data or parameter is used to determine the 3-dimensional coordinates of a road? On line 16, the phrase "such as" is vague and indefinite and should be changed to "including". Further, "rout number" on the same line 16 should be "route number". On lines 18-19, "3-dimensioinal coordinates and road information" should be "the 3-dimensional coordinates and the road information" in order to avoid the antecedent basis problem.

Referring back to claim 3, line 8, it is not understood as to how the camera interior/exterior orientation can be obtained by the so-called "self calibration". Further, on lines 10-11, "camera interior/exterior" should be "the camera interior/exterior orientation". Finally, on

Art Unit: 3661

line 15, "the position information" lacks proper antecedent basis and should be changed to "the 3-dimensional coordinates of the roads".

Claims 2, 4 and 5 are rejected for incorporating the above errors from their respective parent claims by dependency.

5. The references are cited to show the related system(s). Applicant(s) should consider them carefully when responding to the current office action.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gary Chin whose telephone number is (571) 272-6959. The examiner can normally be reached on Monday-Friday 8:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas G. Black can be reached on (571) 272-6956. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


GARY CHIN
PRIMARY EXAMINER